

Notice of Allowability	Application No.	Applicant(s)	
	10/066,666	KUNIMARU ET AL.	
	Examiner	Art Unit	
	Duc C. Ho	2665	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment filed 12-30-05.
2. ☒ The allowed claim(s) is/are 7-8,10-21, 25, 23-24. Renumbered 1-17, respectively.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying Indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date <u>1-11-06</u> . |
| 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date <u>2-06-02&6-18-04</u> | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

EXAMINER 'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Garth D. Richmond on 01-11-06.

The application has been amended as follows:

In the claims:

Claims 9, and 22 are cancelled.

Claim 7, line 4, after "DSL;," next line

Insert --- a first processing unit to divide the terminated multiplexed voice data into a voice signal and a call control signal;

a second processing unit to convert the call control signal into network device control data;

a signaling gateway controller to convert the network device control data into data in a control interface format;

a digital signal processor to convert the voice signal into voice packets; and

a multiplexer for multiplexing the voice packets and the data in the control interface format ---.

Art Unit: 2665

Claim 10, line 1, delete --- further ---.

Claim 10, line 2, "a processing unit" has been changed to --- the processing unit ---.

Claim 10, lines 2-3, delete --- to divide the terminated multiplexed voice data into a voice signal and a call control signal ---.

Claim 10, line 4, "a" has been changed into --- the ---.

Claim 10, line 4, delete --- to convert the voice signal into voice packets ---.

Claim 10, line 5, "a" has been changed into --- the ---.

Claim 10, line 5, delete --- for multiplexing the voice packets and the call control signal ---.

Claim 21, line 3, after "(VMG)", insert --- , said terminating including: (next line)
dividing the received voice data into components including a
voice signal and a call control signal;
processing of the voice signal into voice packets;
converting the call control signal into control data in a control
interface format; and
selectively multiplexing and demultiplexing the control data and
the voice packets ---.

Claim 23, line 1, delete --- wherein the digital signal processing comprises ---.

Claim 23, line 1, insert --- further comprising: ---.

Claim 23, line 2, delete --- received ---.

Claim 23, line 2, "voice signal" has been changed to --- voice packets ---.

Claim 24, line 1, after "data", insert --- further ---.

Claim 25, line 1, "22" has been changed to --- 21---.

Reason for Allowance

2. Regarding claims 7-8, and 10-12, the prior art fails to teach or suggest a network device to connect to a digital subscriber line (DSL), the network device comprising: a first processing unit to divide the terminated multiplexed voice data into a voice signal and a call control signal; a second processing unit to convert the call control signal into network device control data; a signaling gateway controller to convert the network device control data into data in a control interface format; a digital signal processor to convert the voice signal into voice packets; and a multiplexer for multiplexing the voice packets and the data in the control interface format, in combination with other limitations, as specified in the independent claim 7.

Regarding claims 13-20, the prior art fails to teach or suggest a voice over digital subscriber line (VoDSL) communication system comprising: means for extracting voice data from a received VoDSL signal; means for dividing the extracted voice data into a voice signal and a call control signal; means for processing the voice signal into voice packets; means for converting the call control signal into control data; means for converting the control data into data in a control interface format; means for selectively multiplexing and demultiplexing the data in the control interface format and the voice packets for transfer to a control unit via a control unit interface, as specified in the independent claim 13.

Regarding claims 21, 25, and 23-24, the prior art fails to teach or suggest a method comprising a step terminating the received voice data using a voice media gateway (VMG), the terminating including: dividing the received voice data into components including a voice signal and a call control signal; processing the voice signal into packet; converting the call control signal into data in a control interface format; and selectively multiplexing and demultiplexing the control data and the voice packets, in combination with other limitations, as specified in the independent claim 21.

3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Duc Ho whose telephone number is (571) 272-3147. The examiner can normally be reached on Monday through Friday from 7:00 am to 3:30 pm.

If attempt to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy Vu, can be reached on (571) 272-3155.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (571) 272-2600.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2665

5. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Patent Examiner

A handwritten signature in black ink, appearing to read 'Duc Ho', is written over the printed name.

Duc Ho

1-13-06